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**IN THE CLAIMS**

Claims 1-8 (Cancelled).

9. (Currently Amended) A [The] bonded structure [as set forth in Claim 7]  
comprising:

a first structure which is a carbon nanotube-based structure including a carbon nanotube  
and a polymer layer wrapping a rounded surface thereof; and

a second structure bonded with said carbon nanotube-based structure; and

a bonding material between said polymer and said second structure to be bonded  
therewith,

wherein said carbon nanotube-based structure and said second structure are bonded via  
said polymer,

wherein said bonding material comprises a set of molecules with a specific interaction,  
and

wherein said set of molecules with a specific interaction includes a combination of a  
ligand and a receptor, or a combination of an antigen and an antibody.

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10. (Currently Amended) A [The] bonded structure [as set forth in Claim 8] comprising:  
a first structure which is a carbon nanotube-based structure including a carbon nanotube and a polymer wound around a rounded surface thereof;  
a second structure bonded with said carbon nanotube-based structure; and  
a bonding material between said polymer and said second structure to be bonded therewith,  
wherein said carbon nanotube-based structure and said second structure are bonded via said polymer,  
wherein said bonding material comprises a set of molecules with a specific interaction,  
and  
wherein said set of molecules with a specific interaction includes a combination of a ligand and a receptor, or a combination of an antigen and an antibody.

11. (Previously Presented) A bonded structure comprising:  
a first structure which is a carbon nanotube-based structure including a carbon nanotube and a polymer layer wrapping a rounded surface thereof; and  
a second structure bonded with said carbon nanotube-based structure, wherein said polymer includes a polypeptide.

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12. (Previously Presented ) A bonded structure comprising:

a first structure which is a carbon nanotube-based structure including a carbon nanotube and a polymer wound around a rounded surface thereof; and

a second structure bonded with said carbon nanotube-based structure, wherein said polymer includes a polypeptide.

Claims 13 and 14 (Cancelled).

15. (Previously Presented) A bonded structure comprising:

a first structure which is a carbon nanotube-based structure including a carbon nanotube and a polymer layer wrapping a rounded surface thereof; and

a second structure bonded with said carbon nanotube-based structure, wherein said second structure is a metal film.

16. (Previously Presented) A bonded structure comprising:

a first structure which is a carbon nanotube-based structure including a carbon nanotube and a polymer wound around a rounded surface thereof; and

a second structure bonded with said carbon nanotube-based structure, wherein said second structure is a metal film.

Claims 17-38 (Cancelled).